

ERGONOMICS RISK ANALYSIS

Job Title: <u>Animal Handler</u> Job Description: Clean cages, change cages, load/ unload autoclave, receive supplies Evaluators: Melanie Alexandre, Ronnie Balan, Cheryl Bennett Supervisor/Contacts: Patsy Gilbert, Paul Borenstein, Patti Kluck			
Awkward Postures			
Neck	<input type="checkbox"/> No Problem Observed <input checked="" type="checkbox"/> Twisted (rotated) <input checked="" type="checkbox"/> Tilted Back <input checked="" type="checkbox"/> Tilted Forward <input type="checkbox"/> Lateral (bending side to side) <input type="checkbox"/> Other	Description: Reaching into sinks, handling cages (clean and dirty), reaching into bedding and food containers	Solutions: Provide education/training Change depth of sink and storage containers (food and bedding) Minimize use of top shelves in labs and cleaning rack
Wrist/Hand	<input type="checkbox"/> No Problem Observed or Reported <input checked="" type="checkbox"/> Flexion <input checked="" type="checkbox"/> Ulnar Deviation <input checked="" type="checkbox"/> Extension <input checked="" type="checkbox"/> Radial Deviation <input type="checkbox"/> Other	Description: Handling cages (clean and dirty) Sustained pinch during handling of cages, pistol handle of hose while cleaning cages, opening bedding bags, bottle handling	Solutions: Provide education/training Explore equipment options (storage containers, scoops, hose handles, bottle brushes, utility knives)
Elbows/Forearm	<input type="checkbox"/> No Problem Observed or Reported <input checked="" type="checkbox"/> Flexed (arm bent up) <input checked="" type="checkbox"/> Extended (arm straight) <input checked="" type="checkbox"/> Winged (away from body) <input checked="" type="checkbox"/> Supination (palm up) <input checked="" type="checkbox"/> Pronation (palm down) <input type="checkbox"/> Sustained extension/flexion <input type="checkbox"/> Other	Description: Reaching on racks, autoclave, sink	Solutions: Provide education/training
Back	<input type="checkbox"/> No Problem Observed or Reported <input type="checkbox"/> Slouched <input type="checkbox"/> Inadequate Lumbar Support <input checked="" type="checkbox"/> Twisted <input checked="" type="checkbox"/> Standing on hard surfaces and lifting	Description: Standing for all work tasks, Lifting shavings, feed, and water	Solutions: Provide education/training Stack supplies no greater than approximately chest height Perform heavy lifting as 2 person tasks Explore equipment options (carts and casters)
Shoulders	<input type="checkbox"/> No Problem Observed or Reported <input checked="" type="checkbox"/> Forward Reach <input type="checkbox"/> Reaching Behind <input checked="" type="checkbox"/> Raised/above shoulder height <input type="checkbox"/> Other	Description: Reaching into sink, racks, handling cages, autoclave	Solutions: Explore equipment options Minimize use of top shelves in labs and cleaning rack

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Legs	<input type="checkbox"/> Insufficient leg clearance <input checked="" type="checkbox"/> Stance <input type="checkbox"/> Other	Description: Standing continuously Dirty area has slippery surface	Solutions: Explore equipment options (safety shoes, anti-fatigue mats, and non-slip strips)
Other	<input checked="" type="checkbox"/> Work surface height	Description: Various heights from overhead to floor level Deep sink Deep bedding storage	Solutions: Change depth of sink and storage containers (food and bedding)

Repetitive Activities	Description: Most tasks require same muscles and positions Heavy objects: rack, autoclave, bedding, feeding, garbage Noted pulling versus pushing Noted bending and twisting	Solutions: Provide education and training
Static Postures	Description: Continuous standing, reaching, and hand use	Solutions: Provide education and training
Contact Stress/ Pressure	Description: Pushing and pulling autoclave rack and door	Solutions: Explore equipment options (well padded gloves) Perform maintenance on autoclave doors
Work Style/Flow	Description: Employees report fast pace	Solutions: Encourage teamwork with heavy and awkward tasks including carrying supplies, emptying bottles, loading/unloading autoclave and dirty rack
Environment (organization , access, layout, hazards, lighting, temperature)	Description: Dirty side= wet and slippery floor when hosing cages 180 degree water used Clean side= slippery with shoe coverings	Solutions: Explore equipment options (safety shoes, shoe coverings, non-skid strips and/or paint)
Force	Description: Lifting, pushing, pulling, reaching, grasping	Solutions: Provide education and training

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Tools & Equipment	Description: Gloves, lab coats/ shoe coverings, autoclave gloves, bottle brushes	Solutions: Explore equipment options

Summary of ergonomic risk analysis:

1. Provide education and training including: stretching, reaching, lifting, bending, standing, team lifting and carrying
2. Explore equipment options including: storage containers, scoops, hose handles, bottle brushes, utility knives, safety shoes, casters on carts, shoe coverings, padded gloves, non skid strips and/or paint
3. Environmental options: Perform maintenance on autoclave doors, change depth of sink and storage containers (food and bedding)

Animal Handler Photos



Photo 1. Changing cages using overhead reach.

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Photo 2. Loading bottles into autoclave.

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Photo 3. Unloading cart using pinchgrasp.

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Photo 4. Pushing cart into autoclave.